

Title (en)

TOUCH SENSING DEVICE AND TOUCH SENSING METHOD

Title (de)

BERÜHRUNGSERFASSUNGSVORRICHTUNG UND BERÜHRUNGSERFASSUNGSVERFAHREN

Title (fr)

DISPOSITIF DE DÉTECTION TACTILE ET PROCÉDÉ DE DÉTECTION TACTILE

Publication

EP 4372532 A1 20240522 (EN)

Application

EP 23209787 A 20231114

Priority

KR 20220152512 A 20221115

Abstract (en)

In an aspect of the present disclosure, a touch sensing device is provided. The touch sensing device includes: a first circuit configured to supply a driving signal to a touch electrode of a panel; a second circuit configured to sense a change in capacitance of the touch electrode caused by a user touch; and a third circuit configured to: calculate a touch coordinate based on the sensed capacitance change; determine a touch area based on the touch coordinate; and determine the user touch as either a normal touch or a grip touch based on a touch ratio between touch nodes placed on each of a plurality of lines of the panel and the touch area.

IPC 8 full level

G06F 3/041 (2006.01); **G06F 3/044** (2006.01)

CPC (source: CN EP KR US)

G06F 3/0416 (2013.01 - KR); **G06F 3/04162** (2019.05 - CN); **G06F 3/04166** (2019.05 - EP); **G06F 3/041662** (2019.05 - CN); **G06F 3/04186** (2019.05 - CN EP US); **G06F 3/044** (2013.01 - CN KR); **G06F 3/0446** (2019.05 - EP US); **G06F 3/046** (2013.01 - KR); **G06F 2203/04111** (2013.01 - KR)

Citation (search report)

- [XYI] US 2019079576 A1 20190314 - LIU ZHAO [US], et al
- [YA] US 2021096725 A1 20210401 - GARG MAYANK [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA

Designated validation state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 23209787 A 20231114; CN 202311527184 A 20231115; KR 20220152512 A 20221115; TW 112144100 A 20231115; US 202318509988 A 20231115